

**ABSTRACT**

**NONUNIFORM ROTATIONAL DISTORTION (NURD) REDUCTION**

A new image processing method reduces Nonuniform Rotational

- 5     Distortion (NURD) in a medical image acquired using a rotating transducer. The image  
comprises a plurality of image vectors having texture. In a preferred embodiment, the  
image processing technique computes an average frequency of the texture for each image  
vector and estimates an angle for each image vector based on the average frequency for  
the respective image vector. The image processing technique then corrects for NURD by  
10    remapping each image vector to the estimated angle for the respective image vector.